

Size: 14,974 acres
Mission: Manufacture ammunition metal parts and maintain ammunition production facilities
HRS Score: 30.26; placed on NPL in March 1989
IAG Status: IAG signed in 1989
Contaminants: Oils, grease, degreasers, phosphates, solvents, and metal plating sludges, acids, fly ash, TNT, RDX, and HMX
Media Affected: Groundwater, surface water, sediment, and soil
Funding to Date: \$52.7 million
Estimated Cost to Completion (Completion Year): \$7.1 million (FY2000)
Final Remedy in Place or Response Complete Date for All Sites: FY2000



Doyline, Louisiana

Restoration Background

Sites identified at the Louisiana Army Ammunition Plant include lagoons, burning grounds, and landfills contaminated with explosives and plating wastes. The Army identified seven sites during a Preliminary Assessment and Site Inspection in FY78 and completed a preliminary Remedial Investigation and Feasibility Study (RI/FS) in FY82. The installation initiated full-scale RI/FS activities at four of the seven sites in FY85. The studies identified no off-site contamination; however, groundwater monitoring wells at the installation were contaminated with explosive compounds, such as TNT, RDX, and HMX.

The potential for off-site migration of contaminants required groundwater monitoring beyond the northern and southern boundaries of the installation. Groundwater monitoring at the installation and beyond its boundaries has continued until the present.

Between FY89 and FY90, the installation incinerated almost 102,000 tons of explosives-contaminated soil and treated more than 53 million gallons of contaminated water. The lagoons underwent RCRA closure and were revegetated. The installation must monitor the vegetated protective cap and maintain it regularly to ensure its integrity.

The Army identified two additional sites in FY93 and FY94, the Y-Line Etching Facility and the Load-Assemble-Pack Lines. In FY95, the installation began the RI at the Load-Assemble-Pack Lines and completed the RI at the Y-Line Etching Facility. In FY94, the Army completed a 5-year review of the Interim Remedial Action at the Area P lagoons, evaluating the effectiveness of interim measures. The findings of the review confirmed that the source of the contamination had been removed. The installation established a partnership with the U.S. Army Corps of Engineers Waterways Experiment Station to study the feasibility of using natural attenuation to treat groundwater

contaminated with explosives.

In FY96, the installation received approval from EPA for the Record of Decision (ROD) concerning soil at the first seven sites. A separate operable unit (OU) will address the installationwide groundwater. In addition, the installation completed the first phase of the RI at the Load-Assemble-Pack Lines and began the FS for the Y-Line Etching Facility.

In FY97, the installation completed the RI/FS for the Y-Line Etching Facility. The RI/FS determined that there was no risk from contaminated soil at the site. The Army plans to implement a No Further Action ROD at the site. The groundwater, however, is contaminated with trichloroethene. Remedial options for the contaminated groundwater will be developed under the Installationwide Groundwater OU.

FY98 Restoration Progress

The installation initiated work on the RIs for the Ecological Risk Assessment (ERA) and Installationwide Groundwater OU. The Proposed Plan for Area Y is complete; however, a town meeting about the selected remedy must be held before the ROD is released. The installation performed additional water sampling to confirm that natural attenuation is occurring.

The installation's technical review committee meets quarterly to exchange information about the cleanup program, assist in the review and approval of documents, and discuss ongoing restoration progress, Remedial Design, and report preparation.

Plan of Action

- Complete the RI for the ERA in FY99

- Complete all fieldwork for the Groundwater OU RI in FY99
- Complete the natural attenuation study in FY99

FY99 FUNDING BY PHASE AND RELATIVE RISK

